KO52918 (pg 10f 2)

PART B: 510(k) SUMMARY

Submitter:

Alliance Medical Corporation

10232 South 51st Street Phoenix, Arizona 85044

Contact:

Moira Barton

Regulatory Affairs Manager

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Date of preparation:

August 2, 2005

Name of device:

Trade/Proprietary Name: Reprocessed External Fixation

Devices

Common or Usual Name: External Fixation Devices, Fixation

Appliance, Single/Multiple Component

Classification Name: Single/Multiple Component Metallic Bone Fixation Appliances and Accessories and Smooth or Threaded

Metallic Bone Fixation Fastener

Predicate Device		
510(k) Title	Manufacturer	
K021933	TempFix™ External Fixation System	
K875022	TempFix™ External Fixation System, MR Safe	
K875012	DePuy ACE AIM® Titanium Supracondylar Nail	
K910986	Hoffmann Dynamic Wrist Fixator	

Device description:

External fixation devices are specially designed frames, clamps, rods, rod-to-rod couplings, pins, posts, fasteners, wire fixations, fixation bolts, washers, nuts, hinges, sockets, connecting bars and screws used for the management of bone fractures and reconstructive, as well as corrective, orthopedic surgery. Materials used include metal alloys, plastic and composites. These materials are chosen to address a wide range of

fractures and applications as well as to allow for the appropriate

amount of rigidity and stability.

Intended use:

External Fixation Devices are intended to be used for the fixation of supracondylar, or condylar fractures of the femur; for fusion of a joint; for surgical procedures that involve cutting the bone, for fixation of bone fractures; bone reconstruction; as a guide pin for insertion of other implants; or may be implanted through the skin so that a pulling force or traction may be applied to the skeletal system; and others may be used for fixation of bone fractures, for bone reconstructions, as a guide pin for insertion of other implants, or it may be implanted through the skin so that pulling force (traction) may be applied to

the skeletal system.

K052918 (pg 2 of 2)

Indications statement:

Reprocessed external fixation devices are indicated for use in patients requiring external skeletal fixation and treatment of fractures, osteotomy, arthrodesis, correction of deformities, fracture revision, bone reconstruction procedures, limb lengthening, correction of bony or soft tissue deformities and segmental bony or soft tissue defects.

Technological characteristics:

The design, materials, and intended use of the Reprocessed External Fixation Devices are identical to the predicate devices. The mechanism of action of the Reprocessed External Fixation Device is identical to the predicate devices in that the same standard mechanical design, materials, shapes and sizes are utilized. There are no changes to the claims, intended use, clinical applications, patient population, performance specifications, or method of operation.

Performance data:

These devices will be provided sterile and non-sterile depending on customer preference.

Bench and laboratory testing was conducted to demonstrate performance (safety and effectiveness) of Reprocessed External Fixation Devices. This included the following tests:

- Validation of reprocessing
- Sterilization Validation (for sterile devices)
- Function test(s)

Performance testing demonstrates that Reprocessed External Fixation Devices perform as originally intended.

Conclusion:

Alliance Medical Corporation concludes that the modified devices (Reprocessed External Fixation Device) are safe, effective, and substantially equivalent to the predicate devices as described herein.





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JAN 2 7 2006

Ms. Moira Barton Manager, Regulatory Affairs Alliance Medical Corporation 10232 South 51st Street Phoenix, Arizona 85044

Re: K052918

Trade/Device Name: Alliance Medical Corporation Reprocessed External Fixation Devices

(See enclosed list)

Regulation Number: 21 CFR 888.3030 and 21 CFR 888.3040

Regulation Name: Single/multiple component metallic bone fixation appliances and

accessories, Smooth or threaded metallic bone fixation fastener

Regulatory Class: II

Product Code: KTT, KTW, JEC Dated: December 21, 2005 Received: January 5, 2006

Dear Ms. Barton:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0210. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Mark N. Melkerson

Acting Director

Division of General, Restorative and Neurological Devices

Barbaro Buehmo

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Reprocessed External Fixation Device Models found to be **Substantially Equivalent**:

System	Part	Description
Ace-Fisher® Fixator System	FC-10027	Composite 2/3 Ring, Small (6" diam.)
	FC-10028	Composite 1/3 Ring, Small (6" diam.)
	FC-10029	Composite 2/3 Ring, Medium (8" diam.)
	FC-10030	Composite 1/3 Ring, Medium (8" diam.)
	FC-10031	Composite 2/3 Ring, Large (10" diam.)
	FC-10032	Composite 1/3 Ring, Large (10" diam.)
	8180-04-008	Ring Foot Medium
	8180-04-011	Medium Foot Frame
	8180-04-013	Foot Frame Crossbar
	FA-10000-3	Long Rod
	FA-10000-2	Medium Rod
	FA-10000-1	Short Rod
	FA-10000-0	Extra Short Rod
	FA-10355	1 Pin Holder
	FA-10360	2 Pin Holder
	FA-10365	3 Pin Holder
	FA-10054-2	90° Pin Holder Adapter
	FF-10605	90° Adapter Rod
	FF-10023	Ring Connector
	FF-10610	Articulation
Hoffman <i>Classic</i> Sterile Wrist Kit	A13	Articulation 8/8 mm
	A14	Articulation 8/5 mm
	A16	Compression/Distraction Bar
	A18/150	Connecting Rod 150mm
	A18/200	Connecting Rod 200mm
	A18/250	Connecting Rod 250mm
	A18/300	Connecting Rod 300mm
	A18/350	Connecting Rod 350mm
	A18/400	Connecting Rod 400mm
	AC11	Ball Joint w/ Rod
	AC10	Ball Joint
	AC16	Washer
	8082-00-000	Classic Sterile Wrist Kit
		(AMC does not reprocess the pins)

2. Indications for Use Statement

510(k) Number (if known): K052918

Device Name: Alliance Medical Corporation Reprocessed External Fixation Devices

Indications For Use: Reprocessed external fixation devices are indicated for use in patients requiring external skeletal fixation and treatment of fractures, osteotomy, arthrodesis, correction of deformities, fracture revision, bone reconstruction procedures, limb lengthening, correction of bony or soft tissue deformities and segmental bony or soft tissue defects.

Prescription Use X_ (Part 21 CFR 801 Subpart D)

AND/OR

Over-the-Counter Use ____(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of General, Restorative,

and Neurological Devices

Alliance Medical Corporation Reprocessed External Fixation Device Traditional 510(k)

510(k) Number K052918